

# Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

## MMCD Dryer Sheets Birchwood Bulk

Version 1.1

Print Date 11/12/2021

Revision Date 06/16/2021

SDS Number 350000040406

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product information

**Product name** : MMCD Dryer Sheets Birchwood Bulk

**Recommended use** : Laundry

**Restrictions on use** : Use only as directed on label

**Manufacturer, importer, supplier** : Caldrea  
1525 Howe Street  
Racine WI 53403-2236

**Telephone** : +1-800-558-5252

**Emergency telephone number** : 24 Hour Medical Emergency Phone: (866)231-5406  
24 Hour Transport Emergency Phone: (800)424-9300

### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

#### Globally Harmonized System (GHS) Classification

This product does not meet the criteria for classification in any hazard class according to regulation OSHA 29 CFR 1910.1200.

#### Labelling

#### Precautionary statements

**Other hazards** : None identified

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No.	Weight percent
Ethanaminium, 2-hydroxy-N,N-bis(2-	157905-74-3	30.00 - 60.00

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hydroxyethyl)-N-methyl-, esters with C16-18 and C18-unsaturated fatty acids, methyl sulfates (salt		
Cellulose	9004-34-6	30.00 - 60.00
Fragrance - Trade Secret	Mixture	1.00 - 5.00

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

For additional information on product ingredients, see [www.caldrea.com](http://www.caldrea.com).

### 4. FIRST AID MEASURES

#### Description of first aid measures

**Eye contact** : No special requirements

**Skin contact** : No special requirements

**Inhalation** : No special requirements.

**Ingestion** : No special requirements

#### Most important symptoms and effects, both acute and delayed

Eyes : No adverse effects expected when used as directed.

Skin effect : No adverse effects expected when used as directed.

Inhalation : No adverse effects expected when used as directed.

Ingestion : No adverse effects expected when used as directed.

#### Indication of any immediate medical attention and special treatment needed

See Description of first aid measures unless otherwise stated.

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### 5. FIREFIGHTING MEASURES

**Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Further information** : Fight fire with normal precautions from a reasonable distance. Standard procedure for chemical fires. Wear full protective clothing and positive pressure self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** : Wash thoroughly after handling.

**Environmental precautions** : Outside of normal use, avoid release to the environment.

**Methods and materials for containment and cleaning up** : Sweep up and shovel into suitable containers for disposal. Clean residue from spill site.

### 7. HANDLING AND STORAGE

#### Handling

**Precautions for safe handling** : Avoid contact with skin, eyes and clothing. For personal protection see section 8. KEEP OUT OF REACH OF CHILDREN AND PETS.

**Advice on protection against fire and explosion** : Normal measures for preventive fire protection.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Occupational Exposure Limits

Components	CAS-No.	mg/m <sup>3</sup>	ppm	Non-standard units	Basis
Cellulose	9004-34-6	5 mg/m <sup>3</sup>	-	-	OSHA TWA
Cellulose	9004-34-6	15 mg/m <sup>3</sup>	-	-	OSHA TWA
Cellulose	9004-34-6	10 mg/m <sup>3</sup>	-	-	ACGIH TWA

#### Personal protective equipment

**Respiratory protection** : No special requirements.

**Hand protection** : No special requirements.

**Eye protection** : No special requirements.

**Skin and body protection** : No special requirements.

**Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form** : solid

**Color** : white

**Odour** : Woody

**Odour Threshold** : Test not applicable for this product type

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<b>pH</b>	: Not applicable
<b>Melting point/freezing point</b>	: Test not applicable for this product type
<b>Initial boiling point and boiling range</b>	: Test not applicable for this product type
<b>Flash point</b>	: Test not applicable for this product type
<b>Evaporation rate</b>	: Test not applicable for this product type
<b>Flammability (solid, gas)</b>	: Sustains combustion
<b>Upper/lower flammability or explosive limits</b>	: Test not applicable for this product type
<b>Vapour pressure</b>	: Not applicable
<b>Vapour density</b>	: Test not applicable for this product type
<b>Relative density</b>	: 1 g/cm <sup>3</sup> Test not applicable for this product type
<b>Solubility(ies)</b>	: insoluble
<b>Partition coefficient: n-octanol/water</b>	: Test not applicable for this product type
<b>Auto-ignition temperature</b>	: Test not applicable for this product type
<b>Decomposition temperature</b>	: Test not applicable for this product type

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<b>Viscosity, dynamic</b>	:	Test not applicable for this product type	:
<b>Viscosity, kinematic</b>	:	Test not applicable for this product type	:
<b>Oxidizing properties</b>	:	Test not applicable for this product type	:
<b>Volatile Organic Compounds Total VOC (wt. %)*</b>	:	1.1 % - additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations	:
<b>Other information</b>	:	None identified	:

### 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	:	No dangerous reaction known under conditions of normal use.
<b>Chemical stability</b>	:	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	:	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	:	Direct sources of heat.
<b>Incompatible materials</b>	:	None known.
<b>Hazardous decomposition products</b>	:	Thermal decomposition can lead to release of irritating gases and vapours.

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#### 11. TOXICOLOGICAL INFORMATION

**Acute oral toxicity** : LD50 3926 mg/kg

**Acute inhalation toxicity** : LC50 > 10 mg/L

**Acute dermal toxicity** : LD50 4023 mg/kg

GHS Properties	Classification	Routes of entry
Acute toxicity	No classification proposed	Oral
Acute toxicity	No classification proposed	Dermal
Acute toxicity	No classification proposed	Inhalation - Dust and Mist
Acute toxicity	No classification proposed	Inhalation - Vapour
Acute toxicity	No classification proposed	Inhalation - Gas
Skin corrosion/irritation	No classification proposed	-
Serious eye damage/eye irritation	No classification proposed	-
Skin sensitisation	No classification proposed	-
Respiratory sensitisation	No classification proposed	-
Germ cell mutagenicity	No classification proposed	-
Carcinogenicity	No classification proposed	-
Reproductive toxicity	No classification proposed	-
Specific target organ toxicity - single exposure	No classification proposed	-
Specific target organ	No classification proposed	-

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toxicity - repeated exposure		
Aspiration hazard	No classification proposed	-

**Aggravated Medical Condition** : None known.

## 12. ECOLOGICAL INFORMATION

**Product** : The product itself has not been tested.

### Toxicity

The ingredients in this formula have been reviewed and no adverse impact to the environment is expected when used according to label directions.

### Toxicity to fish

Components	End point	Species	Value	Exposure time
Ethanaminium, 2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, esters with C16-18 and C18-unsaturated fatty acids, methyl sulfates (salt	No data available			
Cellulose	No data available			
Fragrance - Trade Secret	No data available			
Ethanaminium, 2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, esters with C16-18 and C18-unsaturated fatty acids, methyl sulfates (salt	No data available			
Cellulose	No data available			
Benzyl benzoate	semi-static test LC50	Danio rerio (zebra fish)	2.32 mg/l	96 h



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### Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
Ethanaminium, 2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, esters with C16-18 and C18-unsaturated fatty acids, methyl sulfates (salt)	No data available			
Cellulose	No data available			
Fragrance - Trade Secret	No data available			
Ethanaminium, 2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, esters with C16-18 and C18-unsaturated fatty acids, methyl sulfates (salt)	No data available			
Cellulose	No data available			
Benzyl benzoate	static test EC50	Daphnia magna (Water flea)	3.09 mg/l	48 h
	semi-static test NOEC	Daphnia magna	0.258 mg/l	21 d

### Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
Ethanaminium, 2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, esters with C16-18 and C18-	No data available			

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unsaturated fatty acids, methyl sulfates (salt)				
Cellulose	No data available			
Fragrance - Trade Secret	No data available			
Ethanaminium, 2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, esters with C16-18 and C18-unsaturated fatty acids, methyl sulfates (salt)	No data available			
Cellulose	No data available			
Benzyl benzoate	static test EC50	Pseudokirchneriella subcapitata (green algae)	0.475 mg/l	72 h

### Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Ethanaminium, 2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, esters with C16-18 and C18-unsaturated fatty acids, methyl sulfates (salt)	66.2 %	28 d	Readily biodegradable.
Cellulose	No data available		
Fragrance - Trade Secret	No data available		
Ethanaminium, 2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, esters with C16-18 and C18-unsaturated fatty acids, methyl sulfates (salt)	66.2 %	28 d	Readily biodegradable.
Cellulose	No data available		
Benzyl benzoate	94 %	28 d	Readily biodegradable.

### Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
Ethanaminium, 2-hydroxy-N,N-	No data available	No data available

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bis(2-hydroxyethyl)-N-methyl-, esters with C16-18 and C18-unsaturated fatty acids, methyl sulfates (salt)		
Cellulose	No data available	No data available
Fragrance - Trade Secret	No data available	No data available
Ethanaminium, 2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, esters with C16-18 and C18-unsaturated fatty acids, methyl sulfates (salt)	No data available	No data available
Cellulose	No data available	No data available
Benzyl benzoate	193.4	3.97

### Mobility

Component	End point	Value
Ethanaminium, 2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, esters with C16-18 and C18-unsaturated fatty acids, methyl sulfates (salt)	No data available	
Cellulose	No data available	
Fragrance - Trade Secret	No data available	
Ethanaminium, 2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, esters with C16-18 and C18-unsaturated fatty acids, methyl sulfates (salt)	No data available	
Cellulose	No data available	
Benzyl benzoate	Koc	6310

### PBT and vPvB assessment

Component	Results
Ethanaminium, 2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-,	Not fulfilling PBT and vPvB criteria

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esters with C16-18 and C18-unsaturated fatty acids, methyl sulfates (salt)	
Cellulose	Not fulfilling PBT and vPvB criteria
Fragrance - Trade Secret	Not fulfilling PBT and vPvB criteria
Ethanaminium, 2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, esters with C16-18 and C18-unsaturated fatty acids, methyl sulfates (salt)	Not fulfilling PBT and vPvB criteria
Cellulose	Not fulfilling PBT and vPvB criteria
Benzyl benzoate	Not fulfilling PBT and vPvB criteria

**Other adverse effects** : None known.

### 13. DISPOSAL CONSIDERATIONS

Consumer may discard empty container in trash, or recycle where facilities exist.

### 14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up-to-date shipping information.

#### Land transport

Not classified as dangerous in the meaning of transport regulations.

#### Sea transport

Not classified as dangerous in the meaning of transport regulations.

#### Air transport

Not classified as dangerous in the meaning of transport regulations.

### 15. REGULATORY INFORMATION

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**Notification status** : All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

**California Prop. 65** : This product is not subject to the reporting requirements under California's Proposition 65.

### 16. OTHER INFORMATION

#### HMIS Ratings

<b>Health</b>	0
<b>Flammability</b>	1
<b>Reactivity</b>	0

#### NFPA Ratings

<b>Health</b>	0
<b>Fire</b>	1
<b>Reactivity</b>	0
<b>Special</b>	-

This information is being provided in accordance with the Occupational Safety and Health Administration (OSHA) regulation (29 CFR 1910.1200). The information supplied is designed for workplaces where product use and frequency of exposure exceeds that established for the labeled consumer use.

#### Further information

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This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Prepared by	Global Safety Assessment & Regulatory Affairs (GSARA)
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**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**MMCD Fabric Softener Birchwood Bulk**

Version 1.0

Print Date 11/12/2021

Revision Date 07/13/2021

SDS Number 350000041063

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product information**

**Product name** : MMCD Fabric Softener Birchwood Bulk

**Recommended use** : Laundry

**Restrictions on use** : Use only as directed on label

**Manufacturer, importer, supplier** : S.C. Johnson & Son, Inc.  
1525 Howe Street  
Racine WI 53403-2236

**Telephone** : +1-800-558-5252

**Emergency telephone number** : 24 Hour Medical Emergency Phone: (866)231-5406  
24 Hour Transport Emergency Phone: (800)424-9300

**2. HAZARDS IDENTIFICATION**

**Classification of the substance or mixture**

**Globally Harmonized System (GHS) Classification**

This product does not meet the criteria for classification in any hazard class according to regulation OSHA 29 CFR 1910.1200.

**Labelling**

**Precautionary statements**

**Other hazards** : None identified

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

For additional information on product ingredients, see [www.whatsinsidescjohnson.com](http://www.whatsinsidescjohnson.com).

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**4. FIRST AID MEASURES**

**Description of first aid measures**

**Most important symptoms and effects, both acute and delayed**

**Indication of any immediate medical attention and special treatment needed**

See Description of first aid measures unless otherwise stated.

**5. FIREFIGHTING MEASURES**

**6. ACCIDENTAL RELEASE MEASURES**

**7. HANDLING AND STORAGE**

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Form</b>	:	liquid
<b>Color</b>	:	white
<b>Odour</b>	:	Woody
<b>Odour Threshold</b>	:	Test not applicable for this product type
<b>pH</b>	:	2.40 - 3.25 at (25 °C)



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<b>Melting point/freezing point</b>	: 0 °C
<b>Initial boiling point and boiling range</b>	: Test not applicable for this product type
<b>Flash point</b>	: does not flash
<b>Evaporation rate</b>	: Test not applicable for this product type
<b>Flammability (solid, gas)</b>	: Does not sustain combustion.
<b>Upper/lower flammability or explosive limits</b>	: Test not applicable for this product type
<b>Vapour pressure</b>	: Test not applicable for this product type
<b>Vapour density</b>	: Test not applicable for this product type
<b>Relative density</b>	: 1 g/cm <sup>3</sup> at 25 °C
<b>Solubility(ies)</b>	: soluble
<b>Partition coefficient: n-octanol/water</b>	: Test not applicable for this product type
<b>Auto-ignition temperature</b>	: Test not applicable for this product type
<b>Decomposition temperature</b>	: Test not applicable for this product type
<b>Viscosity, dynamic</b>	: < 100 mPa.s

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**Viscosity, kinematic** : Test not applicable for this product type

**Oxidizing properties** : Test not applicable for this product type

**Volatile Organic Compounds Total VOC (wt. %)\*** : 2.2 % - additional exemptions may apply  
\*as defined by US Federal and State Consumer Product Regulations

**Other information** : None identified :

**10. STABILITY AND REACTIVITY**

**Incompatible materials** : None known.

**11. TOXICOLOGICAL INFORMATION**

**Acute oral toxicity** : LD50 > 5000 mg/kg

**Acute inhalation toxicity** : LC50 > 10 mg/L

**Acute dermal toxicity** : LD50 > 5000 mg/kg

GHS Properties	Classification	Routes of entry
Acute toxicity	No classification proposed	Oral
Acute toxicity	No classification proposed	Dermal
Acute toxicity	No classification proposed	Inhalation - Dust and Mist
Acute toxicity	No classification proposed	Inhalation - Vapour
Acute toxicity	No classification proposed	Inhalation - Gas
Skin corrosion/irritation	No classification proposed	-

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Serious eye damage/eye irritation	No classification proposed	-
Skin sensitisation	No classification proposed	-
Respiratory sensitisation	No classification proposed	-
Germ cell mutagenicity	No classification proposed	-
Carcinogenicity	No classification proposed	-
Reproductive toxicity	No classification proposed	-
Specific target organ toxicity - single exposure	No classification proposed	-
Specific target organ toxicity - repeated exposure	No classification proposed	-
Aspiration hazard	No classification proposed	-

**Aggravated Medical Condition** :

**12. ECOLOGICAL INFORMATION**

**Product** : The product itself has not been tested.

**Toxicity**

The ingredients in this formula have been reviewed and no adverse impact to the environment is expected when used according to label directions.

**Other adverse effects** : None known.

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**13. DISPOSAL CONSIDERATIONS**

**14. TRANSPORT INFORMATION**

Please refer to the Bill of Lading/receiving documents for up-to-date shipping information.

**Land transport**

Not classified as dangerous in the meaning of transport regulations.

**Sea transport**

Not classified as dangerous in the meaning of transport regulations.

**Air transport**

Not classified as dangerous in the meaning of transport regulations.

**15. REGULATORY INFORMATION**

**California Prop. 65** : This product is not subject to the reporting requirements under California's Proposition 65.

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**16. OTHER INFORMATION**

**HMIS Ratings**

<b>Health</b>	-
<b>Flammability</b>	-
<b>Reactivity</b>	-

**NFPA Ratings**

<b>Health</b>	-
<b>Fire</b>	-
<b>Reactivity</b>	-
<b>Special</b>	-

This information is being provided in accordance with the Occupational Safety and Health Administration (OSHA) regulation (29 CFR 1910.1200). The information supplied is designed for workplaces where product use and frequency of exposure exceeds that established for the labeled consumer use.

**Further information**

This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Prepared by	SC Johnson Global Safety Assessment & Regulatory Affairs (GSARA)
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# Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



## MMCD Concentrated Laundry Birchwood Bulk

Version 1.0

Print Date 11/12/2021

Revision Date 08/17/2021

SDS Number 350000041062

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product information

**Product name** : MMCD Concentrated Laundry Birchwood Bulk

**Recommended use** : Laundry

**Restrictions on use** : Use only as directed on label

**Manufacturer, importer, supplier** : S.C. Johnson & Son, Inc.  
1525 Howe Street  
Racine WI 53403-2236

**Telephone** : +18005585252

**Emergency telephone number** : 24 Hour Medical Emergency Phone: (866)231-5406  
24 Hour Transport Emergency Phone: (800)424-9300

### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

#### Globally Harmonized System (GHS) Classification

This product does not meet the criteria for classification in any hazard class according to regulation OSHA 29 CFR 1910.1200.

#### Labelling

#### Precautionary statements

**Other hazards** : None identified

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Chemical name	CAS-No.	Weight percent
Alcohols, C12-16, ethoxylated	68551-12-2	5.00 - 10.00
Alkylpolyglycoside C10-16	110615-47-9	5.00 - 10.00
Fatty acids, C12-18, Methyl esters, sulfonated, sodium salts	149458-07-1	1.00 - 5.00
Fatty Acid, C8-18 and C18 Unsaturated	67701-05-7	1.00 - 5.00
1-(Octahydro-Tetramethyl-2-Naphthyl)Ethan-1-one	54464-57-2	0.10 - 1.00
Subtilisins (proteolytic enzymes)	9014-01-1	0.0001 - 0.10
2 methyl 4 isothiazolin-3-one	2682-20-4	0.0001 - 0.10
Fragrance - Trade Secret	Mixture	0.001 -

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

For additional information on product ingredients, see [www.caldrea.com](http://www.caldrea.com).

### 4. FIRST AID MEASURES

#### Description of first aid measures

**Eye contact** : No special requirements

**Skin contact** : No special requirements

**Inhalation** : No special requirements.

**Ingestion** : No special requirements

#### Most important symptoms and effects, both acute and delayed

Eyes : No adverse effects expected when used as directed.

Skin effect : No adverse effects expected when used as directed.

Inhalation : No adverse effects expected when used as directed.

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Ingestion : No adverse effects expected when used as directed.

### Indication of any immediate medical attention and special treatment needed

See Description of first aid measures unless otherwise stated.

## 5. FIREFIGHTING MEASURES

**Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Specific hazards during firefighting** : Container may melt and leak in heat of fire.

**Further information** : Fight fire with normal precautions from a reasonable distance. Standard procedure for chemical fires. Wear full protective clothing and positive pressure self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** : Wash thoroughly after handling.

**Environmental precautions** : Outside of normal use, avoid release to the environment.

**Methods and materials for containment and cleaning up** : Dike large spills.  
Clean residue from spill site.

## 7. HANDLING AND STORAGE

### Handling

**Precautions for safe** : Avoid contact with skin, eyes and clothing.



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**handling** For personal protection see section 8.  
KEEP OUT OF REACH OF CHILDREN AND PETS.

**Advice on protection against fire and explosion** : Normal measures for preventive fire protection.

**Storage**

**Requirements for storage areas and containers** : Keep container closed when not in use.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Occupational Exposure Limits

ACGIH or OSHA exposure limits have not been established for this product or reportable ingredients unless noted in the table above.

#### Personal protective equipment

**Respiratory protection** : No special requirements.

**Hand protection** : No special requirements.

**Eye protection** : No special requirements.

**Skin and body protection** : No special requirements.

**Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form** : liquid

**Color** : colourless

**Odour** : Woody

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**Odour Threshold** : Test not applicable for this product type

**pH** : 6.75 - 7.25  
at (25 °C)

**Melting point/freezing point** : 0 °F

**Initial boiling point and boiling range** : Test not applicable for this product type

**Flash point** : does not flash

**Evaporation rate** : Test not applicable for this product type

**Flammability (solid, gas)** : Does not sustain combustion.

**Upper/lower flammability or explosive limits** : Test not applicable for this product type

**Vapour pressure** : Test not applicable for this product type

**Vapour density** : Test not applicable for this product type

**Relative density** : 1.045 - 1.070 g/cm<sup>3</sup> at 25 °C

**Solubility(ies)** : soluble

**Partition coefficient: n-** : Test not applicable for this product type

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**octanol/water**

**Auto-ignition temperature** : Test not applicable for this product type

**Decomposition temperature** : Test not applicable for this product type

**Viscosity, dynamic** : 150 - 400 mPa.s  
at 25 °C

**Viscosity, kinematic** : Test not applicable for this product type

**Oxidizing properties** : Test not applicable for this product type

**Volatile Organic Compounds Total VOC (wt. %)\*** : 0.2 % - additional exemptions may apply  
\*as defined by US Federal and State Consumer Product Regulations

**Other information** : None identified :

### 10. STABILITY AND REACTIVITY

**Reactivity** : No dangerous reaction known under conditions of normal use.

**Chemical stability** : Stable under recommended storage conditions.

**Possibility of hazardous reactions** : If accidental mixing occurs and toxic gas is formed, exit area immediately. Do not return until well ventilated.

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- Conditions to avoid** : Direct sources of heat.
- Incompatible materials** : None known.
- Incompatible materials** : Do not mix with bleach or any other household cleaners.  
Strong bases
- Hazardous decomposition products** : Thermal decomposition can lead to release of irritating gases and vapours.

### 11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity** : LD50 > 5000 mg/kg
- Acute inhalation toxicity** : LC50 > 10 mg/L
- Acute dermal toxicity** : LD50 > 5000 mg/kg

GHS Properties	Classification	Routes of entry
Acute toxicity	No classification proposed	Oral
Acute toxicity	No classification proposed	Dermal
Acute toxicity	No classification proposed	Inhalation - Dust and Mist
Acute toxicity	No classification proposed	Inhalation - Vapour
Acute toxicity	No classification proposed	Inhalation - Gas
Skin corrosion/irritation	No classification proposed	-
Serious eye damage/eye irritation	No classification proposed	-

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Skin sensitisation	No classification proposed	-
Respiratory sensitisation	No classification proposed	-
Germ cell mutagenicity	No classification proposed	-
Carcinogenicity	No classification proposed	-
Reproductive toxicity	No classification proposed	-
Specific target organ toxicity - single exposure	No classification proposed	-
Specific target organ toxicity - repeated exposure	No classification proposed	-
Aspiration hazard	No classification proposed	-

**Aggravated Medical Condition** : None known.

## 12. ECOLOGICAL INFORMATION

**Product** : The product itself has not been tested.

### Toxicity

The ingredients in this formula have been reviewed and no adverse impact to the environment is expected when used according to label directions.

### Toxicity to fish

Components	End point	Species	Value	Exposure time
Alcohols, C12-16, ethoxylated	LC50	Danio rerio (zebra fish)	1 - 10 mg/l	96 h

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	NOEC	Fish	0.16 - 0.88 mg/l	21 d
Alkylpolyglycoside C10-16	semi-static test LC50 ISO 7346/2	Fish	1 - 10 mg/l	96 h
	NOEC	Fish	> 1 - 10 mg/l	
Fatty acids, C12-18, Methyl esters, sulfonated, sodium salts	LC50	Fish	4.7 mg/l	96 h
	NOEC	Fish	0.25 mg/l	21 d
Fatty Acid, C8-18 and C18 Unsaturated	LC50 Read-across (Analogy) OECD Test Guideline 203	Fish	5 mg/l	96 h
1-(Octahydro-Tetramethyl-2-Naphthyl)Ethan-1-one	static test LC50 OECD Test Guideline 203	Lepomis macrochirus (Bluegill sunfish)	1.3 mg/l	96 h
	flow-through test NOEC	Danio rerio (zebra fish)	0.16 mg/l	30 d

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Subtilisins (proteolytic enzymes)	LC50 Measured OECD Test Guideline 203	Oncorhynchus mykiss (rainbow trout)	8.2 mg/l	96 h
	flow-through test NOEC OECD Guideline 210 (Fish, Early-Life Stage Toxicity Test)	Pimephales promelas (fathead minnow)	0.042 mg/l	32 d
2 methyl 4 isothiazolin-3-one	LC50	Oncorhynchus mykiss (rainbow trout)	4.77 mg/l	96 h
	NOEC	Oncorhynchus mykiss (rainbow trout)	2.38 mg/l	98 d
Fragrance - Trade Secret	No data available			

### Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
Alcohols, C12-16, ethoxylated	EC50	Daphnia (water flea)	0.63 - 2.7 mg/l	48 h
	NOEC	Daphnia	0.2 - 0.92 mg/l	21 d
Alkylpolyglycoside C10-16	static test	Daphnia magna (Water)	7 mg/l	48 h

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	EC50  NOEC	flea)  Daphnia	> 1 - 10 mg/l	
Fatty acids, C12-18, Methyl esters, sulfonated, sodium salts	EC50	Daphnia (water flea)	6.25 mg/l	48 h
Fatty Acid, C8-18 and C18 Unsaturated	EC50 Read-across (Analogy) OECD Test Guideline 202	Daphnia magna (Water flea)	3.6 mg/l	48 h
1-(Octahydro-Tetramethyl-2-Naphthyl)Ethan-1-one	static test EC50 Measured OECD Test Guideline 202	Daphnia magna (Water flea)	1.38 mg/l	48 h
	flow-through test NOEC	Daphnia magna	0.028 mg/l	21 d
Subtilisins (proteolytic enzymes)	semi-static EC50 Measured OECD	Daphnia magna (Water flea)	0.170 mg/l	48 h



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	Test Guideline 202  flow-through test NOEC Measured OECD Guideline 211 (Daphnia magna Reproduction Test)	Daphnia magna	0.324 mg/l	21 d
2 methyl 4 isothiazolin-3-one	EC50	Daphnia magna (Water flea)	0.998 mg/l	48 h
	NOEC	Daphnia magna	0.359 mg/l	21 d
Fragrance - Trade Secret	No data available			

### Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
Alcohols, C12-16, ethoxylated	ErC50	Algae	1.6 - 100 mg/l	72 h
Alkylpolyglycoside C10-16	static test EC50	Desmodesmus subspicatus (green algae)	12.5 mg/l	72 h
Fatty acids, C12-18, Methyl esters, sulfonated, sodium	EC50	Algae	0.71 mg/l	72 h

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salts				
Fatty Acid, C8-18 and C18 Unsaturated	static test EC50 Measured OECD Test Guideline 201	Pseudokirchneriella subcapitata (green algae)	0.9 mg/l	72 h
1-(Octahydro-Tetramethyl-2-Naphthyl)Ethan-1-one	NOEC OECD Test Guideline 201	Desmodesmus subspicatus (green algae)	2.6 mg/l	72 h
Subtilisins (proteolytic enzymes)	ErC50 Measured OECD Test Guideline 201 NOEC Measured OECD Test Guideline 201	Pseudokirchneriella subcapitata (green algae) Pseudokirchneriella subcapitata (green algae)	0.83 mg/l 0.317 mg/l	72 h 72 h
2 methyl 4 isothiazolin-3-one	EC10	Pseudokirchneriella subcapitata (green algae)	0.024 mg/l	24 h
Fragrance - Trade Secret	No data available			

### Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Alcohols, C12-16, ethoxylated	87 %	28 d	Readily biodegradable.
Alkylpolyglycoside C10-16	> 70 %	28 d	Readily biodegradable.
Fatty acids, C12-18, Methyl	60 %	28 d	Readily biodegradable.

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esters, sulfonated, sodium salts			
Fatty Acid, C8-18 and C18 Unsaturated	No data available		Readily biodegradable.
1-(Octahydro-Tetramethyl-2-Naphthyl)Ethan-1-one	0 %	28 d	Not readily biodegradable.
Subtilisins (proteolytic enzymes)	100 %	29 d	Readily biodegradable.
2 methyl 4 isothiazolin-3-one	48 %	28 d	Not readily biodegradable.
Fragrance - Trade Secret	No data available		

### Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
Alcohols, C12-16, ethoxylated	1,152 1,152	5.96 5.96
Alkylpolyglycoside C10-16	No data available	<= -0.07
Fatty acids, C12-18, Methyl esters, sulfonated, sodium salts	No data available	No data available
Fatty Acid, C8-18 and C18 Unsaturated	No data available	3.33
1-(Octahydro-Tetramethyl-2-Naphthyl)Ethan-1-one	850 Measured	5.18 - 6.86
Subtilisins (proteolytic enzymes)	No data available	-3.1 Measured
2 methyl 4 isothiazolin-3-one	3 estimated	-0.32
Fragrance - Trade Secret	No data available	No data available

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### Mobility

Component	End point	Value
Alcohols, C12-16, ethoxylated	No data available	
Alkylpolyglycoside C10-16	log Koc	1.7
Fatty acids, C12-18, Methyl esters, sulfonated, sodium salts	No data available	
Fatty Acid, C8-18 and C18 Unsaturated	No data available	
1-(Octahydro-Tetramethyl-2-Naphthyl)Ethan-1-one	No data available	
Subtilisins (proteolytic enzymes)	No data available	
2 methyl 4 isothiazolin-3-one	Koc	0.03 - 246.7
Fragrance - Trade Secret	No data available	

### PBT and vPvB assessment

Component	Results
Alcohols, C12-16, ethoxylated	Not fulfilling PBT and vPvB criteria
Alkylpolyglycoside C10-16	Not fulfilling PBT and vPvB criteria
Fatty acids, C12-18, Methyl esters, sulfonated, sodium salts	Not fulfilling PBT and vPvB criteria
Fatty Acid, C8-18 and C18 Unsaturated	Not fulfilling PBT and vPvB criteria
1-(Octahydro-Tetramethyl-2-Naphthyl)Ethan-1-one	Not fulfilling PBT and vPvB criteria
Subtilisins (proteolytic enzymes)	Not fulfilling PBT and vPvB criteria
2 methyl 4 isothiazolin-3-one	Not fulfilling PBT and vPvB criteria
Fragrance - Trade Secret	Not fulfilling PBT and vPvB criteria

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**Other adverse effects** : None known.

### 13. DISPOSAL CONSIDERATIONS

Consumer may discard empty container in trash, or recycle where facilities exist.

### 14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up-to-date shipping information.

**Land transport**

Not classified as dangerous in the meaning of transport regulations.

**Sea transport**

Not classified as dangerous in the meaning of transport regulations.

**Air transport**

Not classified as dangerous in the meaning of transport regulations.

### 15. REGULATORY INFORMATION

**Notification status** : All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

**Notification status** : All ingredients of this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).

**California Prop. 65** : This product is not subject to the reporting requirements under California's Proposition 65.

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### 16. OTHER INFORMATION

#### HMIS Ratings

Health	1
Flammability	0
Reactivity	0

#### NFPA Ratings

Health	1
Fire	0
Reactivity	0
Special	-

This information is being provided in accordance with the Occupational Safety and Health Administration (OSHA) regulation (29 CFR 1910.1200). The information supplied is designed for workplaces where product use and frequency of exposure exceeds that established for the labeled consumer use.

#### Further information

This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Prepared by	SC Johnson Global Safety Assessment & Regulatory Affairs (GSARA)
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